

CLAIMS

I claim:

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SUB A 1
1. An automated transaction machine comprising:

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a computer operative to generate a user interface output and to receive a plurality of input signals;

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at least one event processor software component in operative connection with the computer;

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a transaction machine interface (TMI) software component in operative connection with the computer;

a document in operative connection with the computer, wherein the document includes a plurality of command instructions, wherein:

the TMI is operative responsive to the command instructions in the document to cause the computer to generate a user interface output;

the TMI is further operative responsive to the user interface output and at least one input signal received by the computer to cause an event to be generated;

the TMI is further operative responsive to at least one of the command instructions to cause the event to be directed an event processor; and

the event processor is operative responsive to the event to selectively cause the TMI to cause a change in the user interface output generated by the computer.

2. The automated transaction machine according to claim 1, wherein the event processor is operative responsive to the event to generate an event response; and the TMI is operative responsive to the event response to cause the change in the user interface output generated by the computer.

3. The automated transaction machine according to claim 1, wherein the TMI includes a plurality of subroutines which are operative to modify the user interface output, and wherein the event processor is operative to selectively call at least one of the subroutines responsive to the event.

4. The automated transaction machine according to claim 1, and further comprising a style sheet in operative connection with the computer, wherein the TMI is further operative to cause the computer to generate the user interface output responsive to the style sheet.

5. The automated transaction machine according to claim 1, wherein the command instructions include an XML instruction.

6. The automated transaction machine according to claim 1, and further comprising an output device in operative connection with the user interface output, and wherein the command instructions include an action menu command instruction, and wherein the TMI is further operative responsive to the action menu command instruction to cause the user interface output generated by the computer to produce a visual representation of an action menu on the output device.

7. The automated transaction machine according to claim 1, wherein the event processor includes a DLL.

8. The automated transaction machine according to claim 1, further comprising at least one transaction function device in operative connection with the computer, wherein the transaction function device is selectively operative to carry out a transaction function, and wherein the event processor is further operative responsive to the event to cause the computer to operate the transaction function device.

9. The automated transaction machine according to claim 1, wherein:

the instruction document includes a plurality of instruction pages, wherein each instruction page includes a corresponding set including at least one command instruction;

the TMI is further operative responsive to at least one command instruction in the instruction document to select a first one of the instruction pages, wherein the TMI is operative to cause the computer to generate a user interface output responsive to a first set included in the first instruction page; and

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the TMI is further operative to cause the event to be directed to the event processor responsive to the first set included in the instruction page.

10. The automated transaction machine according to claim 9, wherein: the TMI is operative responsive to at least one input signal received by the computer to select a second instruction page, wherein the TMI is operative to cause the computer to generate a user interface output responsive to the second instruction page, and wherein the TMI is operative to direct a further event to an event processor responsive to at least one command instruction included in a second set in the second instruction page.

11. The automated transaction machine according to claim 1 wherein the computer further comprises a display screen in operative connection with the user interface output and wherein the user interface output is operative to cause a visible output to be produced on the display screen.

12. A first automated transaction machine apparatus including:

a first computer of a first type, wherein the first computer includes at least one first output device, wherein the first output device is operative to provide at least one output to users of the first machine, and at least one first input device, wherein the first input device is operative to receive at least one input from users of the machine;

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a first transaction function device in operative connection with the first computer, wherein the first transaction function device is operative to carry out a transaction function;

first transaction machine interface software in operative connection with the first computer;

a first instruction document in operative connection with the first computer, wherein the first instruction document includes at least one command instruction;

wherein the first computer is operative responsive to at least one first input to the first input device to cause the first transaction function device to carry out the transaction function, and wherein the first computer is further operative to generate a first output through the first output device responsive to the first input, the first transaction machine interface software and at least one command instruction in the first instruction document.

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Sub B1 13. Apparatus including the first automated transaction machine according to claim 12, and further comprising:

a second automated transaction machine including:

5 a second computer of a second type different from the first type, and wherein the second computer includes at least one second output device, wherein the second output device to provide at least one output to users of the second machine, and at least one second input device, wherein the second input device is operative to receive at least one input from users of the machine;

10 a second transaction function device in operative connection with the second computer, wherein the second transaction function device is operative to carry out the transaction function;

15 second transaction machine interface software in operative connection with the second computer;

a second instruction document substantially identical to the first instruction document, in operative connection with the second computer;

20 wherein the second computer is operative responsive to at least one second input to the second input device to cause the second transaction function device to carry out the transaction function, and wherein the second computer is further operative to generate a second output through the second output device responsive to the

second input, the second transaction machine interface software and at least one command instruction in the second instruction document.

14. The apparatus according to claim 13 wherein the first computer of the first type differs from the second computer of the second type in that the first output device comprises a different type of output device than the second output device.

15. The apparatus according to claim 13 wherein the first computer of the first type differs from second computer of the second type in that the first computer includes a different type of operating system than the second computer.

16. The apparatus according to claim 13 wherein the first computer of the first type differs from the second computer of the second type in that the first computer is operative to cause the first transaction function device to carry out the transaction function responsive to a first input that is different than the second input that is operative to cause the second computer to cause the second transaction function device to carry out the transaction function.

17. The apparatus according to claim 13 wherein the first computer of the first type differs from the second computer of the second type in that the first input device comprises a different type of input device than the second input device.

18. The apparatus according to claim 14 wherein the first output device includes a character based display device and the second output device includes a graphical display device.

19. The apparatus according to claim 17 wherein the first input device includes a key and the second input device includes a touch screen.

Sub B2 20. The apparatus according to claim 12 and further comprising:

event processor software in operative connection with the first computer;

and wherein the transaction function is carried out responsive to the first transaction machine interface software generating an event responsive to the first input and the event processor software causing the first transaction function device to operate responsive to the event.

Sub B3 21. The apparatus according to claim 20 wherein the first transaction machine interface software includes at least one output indicative instruction operative to indicate at least one element included in an initial output through the first output device when the first input is entered, wherein the event processor software is operative to cause the first transaction function device to operate responsive to the event and the output indicative instruction.

Sub B4 22. The apparatus according to claim 21 wherein the event processor software responsive to the event and the output indicative instruction is operative to cause the first computer to generate an event response, wherein the first transaction machine software is operative to cause the computer to generate the first output responsive to the event response.

23. A method for operating an automated transaction machine comprising the steps of:

- (a) reading an instruction document accessible to a computer with a TMI software component in operative connection with the computer, wherein the instruction document includes a plurality of command instructions;
- (b) controlling a user interface output from the computer through operation of the TMI software component responsive to the command instructions;
- (c) receiving an input through an input device operatively connected with the computer;
- (d) generating an event through operation of the TMI software component responsive to the input to the input device and the user interface being output from the computer;
- (e) selectively directing the event through operation of the TMI software component to an event processor in operative connection with the computer, responsive to the command instructions;
- (f) generating an event response through operation of the event processor responsive to the event;

- (g) modifying the user interface output from the computer through operation of the TMI software component responsive to the event response.

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24. The method according to claim 23, wherein the TMI software component comprises at least one subroutine operative to provide information indicative of at least one user interface output, and further comprising the step of calling the subroutine through operation of the event processor responsive to the event.

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25. The method according to claim 23 wherein the TMI software component comprises at least one subroutine that is operative to enable at least one element included in the user interface output, and further comprising the step of calling the subroutine responsive to operation of the event processor.

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26. The method according to claim 23 and further comprising the step of operating a transaction function device in operative connection with computer responsive to the event processor, wherein the transaction function device is operated responsive to the event being directed to the event processor.

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27. Computer readable media bearing instructions which are operative to cause a computer to carry out the method steps recited in claim 23.

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